

# Sheng (Johnny) Liu

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## EDUCATION

### University of Florida

Aug 2022 – May 2025

*Bachelor of Science in Computer Science and Statistics*

GPA: 3.55/4.0

- *Relevant Coursework:* Data Structures and Algorithms, OOP (Object Oriented Programming), Computer Programming I & II, Intro to Software Engineering, Discrete Structures, Computer Organization, Linear Algebra, Intro to Statistics, Enterprise Security, Algorithm Abstraction

## SKILLS

**Languages:** C++, Python, JavaScript, HTML, CSS, React

**Experience In:** MongoDB, Express.js, Node.js, Firebase, Proficiency in MS Office, Google Suite

**Languages Spoken:** English, Fuzhounese dialect, Mandarin

## PROJECTS

### Calorie Counter Companion

Gainesville, FL

*Team Lead*

2024

- Developed and designed a responsive web application using **React** for frontend and **CSS** for styling, providing users with a way to track and manage their calorie intake
- Utilized **Firebase** for user-authentication and real-time database operations, and **MongoDB** for storing and retrieving food recipes and uploaded recipes by users
- Implemented backend services and email functionality using **Node.js** to handle server-side requests and API interactions, and integrated **EmailJS** for automated email notifications for users

### Stock Map Visualizer

Gainesville, FL

*Team Member*

2023

- Designed a visual map utilizing data structures including **Red-Black, B, and B+ Trees** to sort data using **Python**, and **HTML** showcasing real-time information on stock trading dynamics in major markets
- Processed and analyzed a vast dataset with over **100,000** data points, ensuring accurate representation of key metrics such as volume, splits, highs, lows, and more
- Collaborated with a partner to develop an innovative application for analyzing stock data

### Tsinghua University GSS 2022

Remote

*Methods and Functions Developer*

2022

Awards: Best Performing Team

- Led a group of 8 individuals in the creation of an AI-Backed Assistant For The Visually Impaired
- Created a web app that utilized **OpenCV** models in **Python** to interpret mobile phone camera images, analyzed image data, and relayed information back to user in a checklist format
- Web App had an **86%** success rate in correctly interpreting information fed by users and improved incrementally through further trials

## LEADERSHIP & ACTIVITIES

### High Powered Rocketry, UCF

Orlando, FL

*Rocket Propulsion Design Team Lead*

2020 – 2021

- Spearheaded an ongoing **6 person** rocket propulsion design team, which machined a solid carbon fiber airframe, later used in static launches
- Helped negotiate and secure **\$5,000** in funding from sponsors like Lockheed Martin
- Trained new members in Solidworks, and in the use of AutoCAD

## WORK EXPERIENCE

### Token Ramen

Orlando, FL

*Shift Manager*

2022 – 2023

- Overlooked inventory of items and ensured availability of ingredients
- Coordinated a team of employees during peak rush hour
- Established a POS system, which helped automate the process through third-party ordering services